

20010423.qrp v02_n168.qrl.20010423

Date: Mon, 23 Apr 2001 19:03:12 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2168

QRP-L Digest 2168

Topics covered in this issue include:

- 1) [96857] ATUs again &c
by nilsbull@juno.com
- 2) [96858] Re: Float Charger Questions
by Bruce Muscolino <w6toy@erols.com>
- 3) [96859] Need K9AY QST Article
by "Michael Melland" <w9wis@charter.net>
- 4) [96860] article copy
by David Heintzleman <pstrdave@kdsi.net>
- 5) [96861] Poquet Question
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 6) [96862] Relish that Mellish...
by "N7SG K7FD" <k7fd@hotmail.com>
- 7) [96863] For Sale
by Roy <marion@montana.com>
- 8) [96864] OT: Knoxville
by "Jim Crooke" <crooke@prodigy.net>
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by "Jim Crooke" <crooke@prodigy.net>
- 10) [96866] QRPTTF plans
by "Robert P. Okas" <vintage@best.com>
- 11) [96867] Norcal Cascade
by "Tony Fishpool" <g4wif@btinternet.com>
- 12) [96868] Re: QRPTTF Plans
by "Robert P. Okas" <vintage@best.com>
- 13) [96869] Fw: TTF
by "Nick Yokanovich" <k3ny@cablespeed.com>
- 14) [96870] Re: Need K9AY QST Article
by David Newkirk <dpnewkirk@home.com>
- 15) [96871] Re: Relish that Mellish...
by "Ingo DK3RED" <dk3red@t-online.de>
- 16) [96872] SMK-1 Questions
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
- 17) [96873] QRPTTF Calls for Ops NO Colorado
by "Rod Cerkoney" <n0rc@hotmail.com>
- 18) [96874] RE: ladder line in the rain. what goes
by Bill Coleman <aa4lr@arrl.net>
- 19) [96875] Trip to Vancouver, BC

- by "Juan Ferrari" <puntrad@usa.net>
- 20) [96876] WY active for QRPTTF
by Gary Slagel <gdslagel@yahoo.com>
- 21) [96877] RE: SMK-1 Questions
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
- 22) [96878] Still no Epiphyte Filter?
by Mike Pupeza <mpupeza@altavista.com>
- 23) [96879] qrp to qrp 2+ hour qso
by hamjoel@juno.com
- 24) [96880] RE: long wire antennas
by Bill Coleman <aa4lr@arrl.net>
- 25) [96881] Re: Trip to Vancouver, BC
by "laura halliday" <marsgal42@hotmail.com>
- 26) [96882] RE: SMK-1 Questions
by "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
- 27) [96883] Re: QRPTTF plans
by agtaylor@llnl.gov
- 28) [96884] Re: Losses in "450" Ohm Window Line
by Bill Coleman <aa4lr@arrl.net>
- 29) [96885] Tuna Tin II: JayBob has his act together--Thanks Uncle Brucie!!
by "Jay Bromley" <w5jay@alltel.net>
- 30) [96886] Re: long wire antennas
by George Franklin <w0av@juno.com>
- 31) [96887] SMK-1 Now Transmitting!
by "Delbert Long" <ad6we@hotmail.com>
- 32) [96888] Tuna Tin 2 for 30 Meters
by "Dan McLaughlin" <danmclaughlin@lycos.com>
- 33) [96889] Redhot Radio RH-20 Questions
by John DiLorenzo <jdilorenzo3301@altavista.com>
- 34) [96890] Re: Trip to Vancouver, BC
by Rick Robinson <rerobins@email.uncc.edu>
- 35) [96891] Re: long wire antennas
by "Arthur G. Silvers" <ags@ieee.org>
- 36) [96892] Re: Tuna Tin 2 for 30 Meters
by Bruce Muscolino <w6toy@erols.com>
- 37) [96893] RE: Float Charger Questions
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 38) [96894] Re: Redhot Radio RH-20 Questions
by "Ingo DK3RED" <dk3red@t-online.de>
- 39) [96895] Re: Redhot Radio RH-20 Questions
by John DiLorenzo <jdilorenzo3301@altavista.com>
- 40) [96896] Fuji batteries
by "Jim Crooke" <crooke@prodigy.net>
- 41) [96897] Re: Fuji batteries
by "Mike Yetsko" <myetsko@insydesw.com>
- 42) [96898] Tuna Tin 2 on 30 meters?
by "Delbert Long" <ad6we@hotmail.com>
- 43) [96899] Re: Redhot Radio RH-20 Questions

- by "Ingo DK3RED" <dk3red@t-online.de>
- 44) [96900] Re: Fuji batteries
by Phil Wheeler <w7ox@earthlink.net>
 - 45) [96901] Re: long wire antennas
by "Don Wilhelm" <w3fpr@arrl.net>
 - 46) [96902] Re: long wire antennas
by Phil Wheeler <w7ox@earthlink.net>
 - 47) [96903] Re: long wire antennas
by "Don Wilhelm" <w3fpr@arrl.net>
 - 48) [96904] Re: Trip to Vancouver, BC
by "ZOOM" <kandrparker@sympatico.ca>
 - 49) [96905] Linear loading question
by Drbob92031@aol.com
 - 50) [96906] Re: long wire antennas
by "Arthur G. Silvers" <ags@ieee.org>
 - 51) [96907] PROP Conditions for QRPTTF (prelim)
by "Paul Harden, NA5N" <na5n@rt66.com>
 - 52) [96908] SMK-1 voltage measurements
by "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
 - 53) [96909] Re: Linear loading question
by alan.kaul@att.net
 - 54) [96910] Ten-Tec Cases in Canada
by David Beach <dbeach@blvl.igs.net>
 - 55) [96911] Re: Redhot Radio RH-20 Questions
by "Steven Weber" <kd1jv@moose.ncia.net>
 - 56) [96912] Re: Losses in "450" Ohm WIndow Line
by agtaylor@llnl.gov
 - 57) [96913] Re: Fuji batteries
by DYARNES@aol.com

Date: Sun, 22 Apr 2001 17:48:44 +0000
From: nilsbull@juno.com
To: QRP-L@lehigh.edu
Subject: [96857] ATUs again &c
Message-ID: <20010422.175426.-174787.0.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Ganglia,

Here's the deal: I can run the LDG Z-11 ATU remote in the outhouse to get on 75m. I have the signal get to the ATU via the 75 ft of that unspoiled ethernet 50 Ohm stuff what I have, then from the Z-11 to a 1:1 toroid balun in a box and from that to twin lead up to the antenna wire legs. They ain't nearly 75 ft long as they were when I bought 'em out of the

local RS store, so I'm sure they're seriously under longitude for the wavelength in question.

I can usually get the LDG to resolve to about 1.8:1 or so. Sometimes not as well. So anyway, that's tuning up. When I pick up the mic & gibber into it, the effects of all that mismatchage become rather obvious: the SWR meter shows things ain't as purty as they was tuned up & the "reflected" power reading goes up to or equals the output. (Stockton wattmeter here, home-brew, the usual "your milliwattage may vary" skene.)

But . . .

When I run the output through my home-brew "ultimate transmatch" (UTM) doodad what I've used for nearly 15 years now (yeah, it's been that long since I first ran into the G-QRP crazies . . . which is another story), things are different. (Well, duh!) So I'm runnin' the output of the radio (SG-2020) to el ultimo, and from the UTM through the ethernet hose to the distal LDG, I can get the swr to look much nicer (like beautiful, dude). And it stays the same for tune as it does for yack. No, not that kind of yack. The other kind of yack. Like yack-iddy-yack-iddy-yack-yack-yack jamas se caye la boca yack.

The question then, I guess, becomes one of "am I nuts" or am I just fooling mother RF. I think it's kinda both. I mean I can yack with WW8MM & W8PJ on 3972.5 no problem, and it don't get into my latino music on the CD or tear up the TV downstairs (ah the joy). So I figure it must be a workin' situation. What's got me is that I have to do this . . . or that it works at all.

So next? Well, after Dayton, I'm gonna have to redo the antenna anyway so I have real 75m legs on it & then maybe end up with the opposite/right angle to that pair or wires being whatever they are now. Just enough to make things difficult.

And in the process of all this, right now, without the tuner, the antenna is resonant on 40m between 7.0 and 7.2, which makes things cool on 40m CW, north & south. And the vertical, also resonant for 40m (7.0-7.3) makes an interesting reference . . . for signals & for noise (as I expectorated).

Hmmm . . . wander waddle hip in wren agate D LDG R-11 spooner tinder how mouse . . .

73

Nils

(. . . TR above: wonder what'll happen when I get the LDG R-11 tuner in

the outhouse)

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes
Sonrientes

<http://w8ijn.www6.50megs.com> -- W8IJN --

<http://members.fortunecity.com/nilsbull>

"In MY day we FIGHT to have earphones! Every DAY was STRUGGLE!"

-- Comrade Nikolai Sergeievich McTovarishov, 19

Oct 1917

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 22 Apr 2001 18:57:52 -0400

From: Bruce Muscolino <w6toy@erols.com>

To: mulveyr@iname.com

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [96858] Re: Float Charger Questions

Message-ID: <3AE361F0.EB0D61B9@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Rich and Dennis,

It seems to me that you (Rich) don't have anything coming, after all you say you bought the charger a year ago and have had it in what passes for constant commercial service (CCS) for the entire year! Dennis, you have done a good experiment even if it ate one of the chargers!

Experience has taught me that items intended for intermittent commercial and amateur service (ICAS) should not be expected to perform well if hooked up constantly. Battery chargers are a prime example. They sit hooked up to your batteries constantly, when a little observation would make turning them off easy! They generate heat and apparently have a problem with eating their contacts!

I'd let this be a lesson. Use them as chargers and suffer the problems when you batteries go dead!

73

Date: Sun, 22 Apr 2001 20:43:09 -0500
From: "Michael Melland" <w9wis@charter.net>
To: <qrp-l@lehigh.edu>
Subject: [96859] Need K9AY QST Article
Message-ID: <002f01c0cb96\$c37791a0\$a15d53d1@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I need the K9AY QRP transmitter section construction article from the January 1991 QST. I already have the December 1990 K9AY QRP receiver section article in my QST collection but I'm missing the Jan 1991 issue with the second part of the project.

Anyone help me out with a photocopy?

Thanks,

Mike

--

Michael Melland, W9WIS
Winneconne, Wisconsin USA EN54pc
qrp-l #1656 - qrparci # 9875 - iparc #252
<http://www.qsl.net/w9wis>

Date: Sun, 22 Apr 2001 19:52:06 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: qrp-l@Lehigh.EDU
Subject: [96860] article copy
Message-ID: <3AE37CB6.5AD1CA86@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

can anyone assist me, I need a copy of SLQ vertical antenna artical in Summer, 2000, QRP Homebrewer - I'll pay for a copy, backissue, whatever, thanks
Dave Heintzleman
K8BBM

Date: Sun, 22 Apr 2001 22:23:17 -0400

From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>, "njqrp@njqrp.org" <njqrp@njqrp.org>
Subject: [96861] Poquet Question
Message-ID: <3AE39215.41864839@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Remember about a year ago when we all got excited about the Poquet PC???? Well I still have and use mine. But I've run across a puzzler. As I recall, I saw somebody swapping the PC cards out of the Poquet and into their laptop for programming. I recently gained access to a Windows 2000 based laptop with a spare PC card slot. When I went to try the same trick (plugging in the Poquet's PC card) I was informed (by Win2K) that the PC card was of an unrecognized type. It dutifully searched for a driver and found none. I guess the question is...Is there a driver out there in QRP/Poquet land that I can use to make this card work in my laptop???

Note: This is the Original Poquet not the Poquet Plus. I understand there are some differences.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Sun, 22 Apr 2001 19:59:47 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: elecrafft@qth.net
Cc: qrp-1@Lehigh.EDU
Subject: [96862] Relish that Mellish...
Message-ID: <F186Frm2cpCzCDYwE1n00006013@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

What a nice treat on birthday number 48...worked Mellish Reef qrp w/ K2 and super birthday gift from xyl N7SG, a Nye Master Key! Funstuff...

VK9ML worked 4/23 at 0252Z on 28.025MHz, K7FD and N7SG. K2 and 3 e1 quad at 60 foot level...

73 John K7FD, Old Timer

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Sun, 22 Apr 2001 21:09:18 -0600
From: Roy <marion@montana.com>
To: qrp-1@Lehigh.EDU
Subject: [96863] For Sale
Message-ID: <4.3.1.2.20010422204039.00a71d70@mail.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

For Sale:

AEA 10 mtr SSB/CW handheld. Works off of standard AA's or will recharge nicads , or external power.
Excellent condition, I am only owner. \$175 shipped in CONUS.

Here is a rare one: Mizuho 6 mtr SSB/CW handheld. Excellent condition.
Same power setup as above.
Also \$175 shipped in CONUS.

Both include manual.

Roy AB7CE

Date: Sun, 22 Apr 2001 23:12:43 -0500
From: "Jim Crooke" <crooke@prodigy.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <fpqrp-1@fpqrp.com>
Subject: [96864] OT: Knoxville
Message-ID: <00da01c0cbab\$a6c8d680\$5ab19cd1@n9o0l8>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings,

Do any of you have a very thorough knowledge of Knoxville? I will be there next week for a wedding and have a couple of questions.

Thanks.

73 oo's Jim KJ0C

Date: Sun, 22 Apr 2001 23:14:53 -0500
From: "Jim Crooke" <crooke@prodigy.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <fpqrp-1@fpqrp.com>
Subject: [96865] WTB MP-1
Message-ID: <00e001c0cbab\$f39ef160\$5ab19cd1@n9o018>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone have a MP-1 antenna they want to sell really quick?

73 oo's Jim KJ0C

Date: Sun, 22 Apr 2001 23:10:55 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: qrp-1@lehigh.edu
Subject: [96866] QRPTTF plans
Message-ID: <Pine.BSF.4.21.0104201345120.11688-100000@shell114.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Excitement is building at this end for TTF. It must be the year of the Eleusinian Mysteries. This week, I received permission to operate from the James Lick Observatory atop Mt. Hamilton, 14 miles east of San Jose, CA and about 4250' ASL. My friend Bill, AD6JV, and I will be operating from the parking lot adjacent to the 36 inch refractor. It might be more of an FYBO experience, since it was snowing there 2 weeks ago when I first visited.

While neither Io nor Europa were discovered at the Lick Observatory, Amalthea, the fifth moon of Jupiter, was first observed by Edward Emerson Barnard in 1892 using the original telescope, at the base of which lies Messr. Lick. Amalthea has more the shape of an Idaho spud than a sphere, and is dusted by sulphur emitted by Io's volcanoes. Still, it's not too far from the monolith!

This morning, Bill and I rendezvoused at a vista point off of I-280 and conducted a dry run of our setups. I'll have a 20' Cabellas vertical (an SLV sans coil) lashed to the roof rack of my SUV with radials splayed about. Bill will have duelling hamsticks perched on a 30' mast, plus other tricks up his sleeve. Look for us on 40m thru 10m. Now, off to make a sacrifice to the propagation gods...

73,
Bob - W3CD

Date: Mon, 23 Apr 2001 07:40:59 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [96867] Norcal Cascade
Message-ID: <005a01c0cbc0\$62757c80\$b61b073e@LocalHost>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would appreciate feedback from anyone who has successfully used Sierra plug in band modules with the Norcal Cascade. Or alternatively, if anyone has some artwork or digital snaps of the PCB's I could have a go at building my own.

Kind regards
Tony - G4WIF

Date: Mon, 23 Apr 2001 00:12:09 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: qrp-1@lehigh.edu
Subject: [96868] Re: QRPTTF Plans
Message-ID: <Pine.BSF.4.21.0104222346140.15212-100000@shell14.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I forgot to mention an experience during our QRPTTF testing this morning. While in the throes of installing the vertical atop my vehicle, a young lad walked up and inquired what Bill and I were doing. As soon as

the fishing pole was planted and some radials thrown about, I climbed down off the running board and explained.

Brian is a bright 10 year old from Petaluma who recently helped his dad repair a wind up radio. Sensing his curiosity, I told him how my K2 was built from a kit and how operating low power radios enables one to venture off to interesting operating sites, like Mt. Hamilton, and talk to lots of interesting people and how people really do use Morse code, even today.

The K2 was tuned to the phone portion of 20m where we heard an EA3 working the West coast. Ten watts didn't snag a qso this morning, but then again, the big guns were out in force and the EA3 wasn't begging. We listened to the pileup for a while, and Brian seemed intrigued. Intrigued enough to ask if it was ok to take a picture of my setup. I hope the pleasant discourse this morning brings another member to our ranks. I'm kicking myself that I didn't have any qsl cards on me... Next time.

73,
Bob - W3CD

Date: Mon, 23 Apr 2001 06:33:08 -0400
From: "Nick Yokanovich" <k3ny@cablespeed.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [96869] Fw: TTF
Message-ID: <005f01c0cbe0\$ca5bcaa0\$f5462dd8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If I was back in the Midwest and not stuck out here in the East I'd go to Elmwood, WI, the UFO capital of Wisconsin, for TTF.

They had one fellow there who had hundreds of lights in a big field, laid out in the shape of a man, trying to attract UFOs. And there have been lots of UFO sightings there. They hold a town "UFO Days" in July.

The town's web site is <http://www.pressenter.com/org/elmwood/> . It's northwest of Durand, east of Ellsworth, not too far from the Twin Cities. You have to get on those funny Wisconsin backroads like XX and BB.

73, Nick K3NY Arnold, MD

Date: Mon, 23 Apr 2001 07:28:11 -0400
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [96870] Re: Need K9AY QST Article
Message-ID: <3AE411CB.39CB61E6@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike, W9WIS, wrote:

"I need the K9AY QRP transmitter section construction article from the January 1991 QST. I already have the December 1990 K9AY QRP receiver section article in my QST collection but I'm missing the Jan 1991 issue with the second part of the project.

Anyone help me out with a photocopy?"

Sure: ARRL will sell you one; for how much to pay and how to contact them about it, see <http://www.arrl.org/tis>.

73,

Dave, W9VES
dpnewkirk@home.com

Date: Mon, 23 Apr 2001 14:22:43 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [96871] Re: Relish that Mellish...
Message-ID: <000801c0cbf0\$1dc34560\$cb8f01d9@ingo>

Hello John,

> What a nice treat on birthday number 48...worked Mellish Reef qrp w/
K2 and

Congratulations on both.

> super birthday gift from xyl N7SG, a Nye Master Key! Funstuff...

You have a good xyl. I must buy my keys themselves. ;-))

72 de Ingo, DK3RED

P.S. 72 also 2 Ann.

E-Mail: dk3red@t-online.de - Homepage: <http://www.t-online.de/~dk3red>

Date: Mon, 23 Apr 2001 09:02:25 -0400
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [96872] SMK-1 Questions
Message-ID: <E1F0152638DBD311AEF700D0B74455E21E3637@EXCHANGE_NH>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Well, I jumped on the bandwagon kinda late, but I made it eventually. :)
Anyhow, I bought one of the last SMK-1's and finally hooked it up to power
last night. As such, I came up with 2 questions:

1) It transmits seemingly ok. I didn't look at it on an o-scope, but my
Century could hear the TX just fine. I did notice that the TX freq seems to
"drift" during key down--it rises/falls some small amount (10Hz? 50Hz?), but
certainly not enough to drift out of any CW filter. Is this the trait known
as "chirp"?

2) RX isn't what it ought to be. Nice sea of static, but nothing heard.
Not even sidetone during TX. I tried to tweak TC1 as per the instructions,
but no change. Touching TC2, however, results in a loud hum (60Hz?), and
what sounds like maybe a shortwave station? Since TC2 is just before the RX
mixer, I'm assuming that I have a bad solder joint, or perhaps even a cooked
component. But has anyone else had a similar problem?

Shawn Upton, KB1CKT
Product Development Engineer - Sensors
Allegro MicroSystems, Inc
Concord, NH
603.228.5533 ext. 429

Date: Mon, 23 Apr 2001 06:57:26 -0600
From: "Rod Cercone" <n0rc@hotmail.com>
To: <elecraft@qth.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "Flying Pigs" <fpqrp-l@mpna.com>, "ncarc-l" <ncarc@qth.net>
Subject: [96873] QRPTTF Calls for Ops NO Colorado
Message-ID: <OE60uIU1Gj03oHMwVN700001f6a@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

QRPTTF is this coming Saturday, 28-APR-2001. Join me and others for a fun time. Follow this link for details:

<http://www.qsl.net/n0rc/qrpttf/qrpttf.html>

QRP Demos

Been wanting to try QRP & need help deciding on a rig? We'll have available:

- o K2(s) from Elecraft
- o K1 from Elecraft (40,20m)
- o Wilderness Sierra (40,15m)
- o NC20
- o and whatever else any one brings

So drop by pick a band, pick a rig, run some QSOs.

Not a CW OP but curious? Drop by just to see what going on, your welcome to join us.

73, Rod N0RC
Ft Collins CO

Date: Mon, 23 Apr 2001 09:22:24 -0400
From: Bill Coleman <aa4lr@arrl.net>

To: <ko6gf@slip.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96874] RE: ladder line in the rain. what goes
Message-ID: <1010323092222.JAA29114@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 4/11/01 11:50 PM, Denis Englander at ko6gf@slip.net wrote:

>The only time that I have heard of a grounding strap from one's
>body to an electrical devise, is in the case of working on some
>sort of computer gear with sensitive CMOS chips which are
>very static prone. The grounding strap helps to bleed away
>any static buildup on the person working on the equipment.
>This is true, even if the sensitive equipment is unplugged.

I might point out that such a grounding strap is not a direct connection to ground, but goes through a very high-value resistor (1-10 mega ohms). The resistor is in place to prevent the ground strap from completing a circuit and causing a potentially serious or fatal electrical shock.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 23 Apr 2001 09:44:23 -0400
From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96875] Trip to Vancouver, BC
Message-ID: <01ea01c0cbfb\$819884a0\$5e35f2d8@juan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

As I posted, I'm planning a trip to Vancouver for the next week.
As I would like to take my NW-20 with me, my questions are: Is there any procedure I have to be aware of for taking the equipment into Canada and back?

Do I need any other document than my ARS License to do this?
Hope you may advise on this.

Any comment will be appreciated.

72//73

Juan - KG4FSN

Date: Mon, 23 Apr 2001 07:05:26 -0700 (PDT)
From: Gary Slagel <gdslagel@yahoo.com>
To: QRP L <qrp-l@Lehigh.EDU>
Subject: [96876] WY active for QRPTTF
Message-ID: <20010423140526.46109.qmail@web11601.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Looks like I'll be operating with WUOH at Guernsey State Park in beautiful Wyoming. Will be setting up Friday, doing QRPTTF on Saturday and leaving on Sunday so if ur after that elusive WY QSO expect to hear WUOH & N0SXX the whole weekend.

We'll be taking up a whole range of radios and antennas so we should be all over the bands.... favorites tend to be 20 & 30.

see ya and good luck

Gary

=====
Gary Slagel/N0SXX
Conifer, CO 80433
gdslagel@yahoo.com
Personal Website: <http://marina.fortunecity.com/sanpedro/351>

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<http://auctions.yahoo.com/>

Date: Mon, 23 Apr 2001 10:29:09 -0400
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
To: "'Mike Branca'" <w3irz@att.net>
Cc: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>

Subject: [96877] RE: SMK-1 Questions
Message-ID: <E1F0152638DBD311AEF700D0B74455E21E363C@EXCHANGE_NH>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

So maybe the RX oscillator isn't working? I had the cover off, and my main station running, and I did not hear any tones about 7.122MHz (I crystaled mine for the Novice band). Should I be able to hear that RX oscillator (with the cover off of the SMK-1) on my main station (antenna all of 10' from my SMK-1)?

Shawn Upton, KB1CKT
Product Development Engineer - Sensors
Allegro MicroSystems, Inc
Concord, NH
603.228.5533 ext. 429

-----Original Message-----
From: Mike Branca [mailto:w3irz@att.net]
Sent: Monday, April 23, 2001 9:54 AM
To: SUpton@ALLEGROMICRO.com
Subject: Re: SMK-1 Questions

Shawn, you need to look at the RX oscillator and crystal circuit. You should also be able to hear it on another RX.

Mike W3IRZ

Date: 23 Apr 2001 07:20:22 -0700
From: Mike Pupeza <mpupeza@altavista.com>
To: QRP-L@Lehigh.EDU
Cc: peter@jab.demon.co.uk
Subject: [96878] Still no Epiphyte Filter?
Message-ID: <20010423142022.17702.cpmata@c012.sfo.cp.net>
Content-Type: text/plain
Content-Disposition: inline
Mime-Version: 1.0

Hi All;
I am still having no luck at getting a MuRata CFM455J1 Filter for my Epiphyte-3.

I have written an order to Peter Thomas G7JAB at JAB Electronics Components, P.O.

Box 5774, Birmingham B44 8P, U.K., and have repeatedly sent E-Mails to peter@jab.demon.co.uk but have never heard back.

Does anyone have a phone number for Peter, or an alternate supplier for this part?

Or any other help in this matter?

P.S. My Epiphyte-3 is complete, except for the filter. Can I jumper the filter in-out with a capacitor and test it as a DSB unit, or would I generate noise everywhere? I guess that I could try it - what can it hurt? I was waiting for the filter before I finished the wiring and testing!

Thanks
Mike VE3EQP

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Date: Mon, 23 Apr 2001 10:42:37 -0400
From: hamjoel@juno.com
To: fpqrp-1@mpna.com, qrp-1@lehigh.edu
Subject: [96879] qrp to qrp 2+ hour qso
Message-ID: <20010423.104401.-1771243.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

High Y'all

met Bob (W9JOB/4 in VA.) on forty meters last nite... We chatted from about ten pm eastern to after midnite eastern...on 7.038... he had a smk1 350 mw... and a G5RV up about 50 ft....

I had my k2 about 5 watts...

it was amazing.... no qsb... no fills... 57 or better the whole time... Bob had a very easy to copy fist and was most interesting....one of those "most memorable" qso's...

great band conditions last nite

kella joel
in maine
oo shrink
72 & 73 oo's

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 23 Apr 2001 11:09:08 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <nkennedy@tcainternet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96880] RE: long wire antennas
Message-ID: <1010323110907.LAA12027@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 4/18/01 7:26 PM, Nick Kennedy at nkennedy@tcainternet.com wrote:

>My personal experiences with longwires ...
>
>Fairly crummy signal reports.

I have one long wire story that may nor may not be true. It was told by a college buddy of mine, who may or may not have been pulling my leg.

His parents lived south of town, on a modestly large lake (100 acres or so). At some point in time, the power company put up some 200' transmission line towers over the lake.

During construction, one of the wires was pulled from a transmission tower and arced down gracefully onto the surface of the lake. My friend was intrigued. Clearly, this line couldn't be powered, since it was sitting in the lake. So, at night, he loaded his Yeasu FT101 on a pontoon boat, and found the line. By carefully backing up the boat, he got the end of the line out of the water, and hooked it up to his antenna tuner.

Just barefoot with 100 watts, he regaled me with stories of amazing signal reports. On 80 and 40, it worked like gangbusters. Considering it was 150 maybe 180 feet in the air, and miles and miles of wire, that's not too surprising.

This went on for almost a week, before the crew arrived and pulled the line to the other side of the lake. My friend lost a lot of sleep, going out nightly to work the bands while he had the chance.

>Lately, our club's Field Day antenna for the CW station for all bands has
>been a 180 foot dipole fed with 450 ohm line thru a Johnson Matchbox.
> Works really well.
>
>If you go with the longwire, let us know how it worked.

In reality, a longwire isn't really a "long" wire unless it is at least one, or more likely MORE wavelengths long. If it is less than a wavelength, it is really a random wire.

And the rule of thumb for any horizontal antenna is that the most critical dimension is height above ground in wavelengths. So, it may not be how long your long wire is, but how high it is that makes the difference.

I used a 300 foot long wire some years ago. It was not a great antenna. Of course, it was only 15 feet up. I did make my first 160m contact on that antenna.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 23 Apr 2001 15:18:54
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [96881] Re: Trip to Vancouver, BC
Message-ID: <F84v5y4FypKsEgJX0xJ0000a834@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Juan KG4FSN wrote:

>As I posted, I'm planning a trip to Vancouver for the
>next week. As I would like to take my NW-20 with me, my
>questions are: Is there any procedure I have to be aware
>of for taking the equipment into Canada and back?
>Do I need any other document than my ARS License to do this?
>Hope you may advise on this.

This is well documented on the Radio Amateurs of Canada
web page and has been discussed on QRP-L.

Was the information there not useful?

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."

ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Mon, 23 Apr 2001 12:09:19 -0400
From: "Upton, Shawn" <SUpton@ALLEGROMICRO.com>
To: "'Richard Matthews'" <prm@hiwaay.net>
Cc: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [96882] RE: SMK-1 Questions
Message-ID: <E1F0152638DBD311AEF700D0B74455E21E363F@EXCHANGE_NH>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Upon close examination, R5 (2 meg? marked 2004) is not soldered down on one leg. I'll solder that and retry tonight. Thanks for the suggestions thus far.

Shawn Upton, KB1CKT
Product Development Engineer - Sensors
Allegro MicroSystems, Inc
Concord, NH
603.228.5533 ext. 429

-----Original Message-----
From: Richard Matthews [mailto:prm@hiwaay.net]
Sent: Monday, April 23, 2001 11:16 AM
To: SUpton@ALLEGROMICRO.com
Subject: Re: SMK-1 Questions

Shawn,

Make a pick up coil for your receiver . . just a few turns of wire, one inch dia coil or thereabouts connected to your rcvr ant connection . . with this coil placed anywhere near the crystal you should hear the crystal output clearly if it is working when your receiver is tuned to its frequency

Richard

----- Original Message -----

From: Upton, Shawn <SUpton@ALLEGROMICRO.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, April 23, 2001 9:29 AM
Subject: RE: SMK-1 Questions

> So maybe the RX oscillator isn't working? I had the cover off, and my
main
> station running, and I did not hear any tones about 7.122MHz (I crystaled
> mine for the Novice band). Should I be able to hear that RX oscillator
> (with the cover off of the SMK-1) on my main station (antenna all of 10'
> from my SMK-1)?

>
> Shawn Upton, KB1CKT
> Product Development Engineer - Sensors
> Allegro MicroSystems, Inc
> Concord, NH
> 603.228.5533 ext. 429

>
>
>
> -----Original Message-----
> From: Mike Branca [mailto:w3irz@att.net]
> Sent: Monday, April 23, 2001 9:54 AM
> To: SUpton@ALLEGROMICRO.com
> Subject: Re: SMK-1 Questions

>
>
> Shawn, you need to look at the RX oscillator and crystal circuit. You
> should also be able to hear it on another RX.
>
> Mike W3IRZ
>

Date: Mon, 23 Apr 2001 09:00:39 -0700 (PDT)
From: agtaylor@llnl.gov
To: qrp-1@lehigh.edu
Subject: [96883] Re: QRPTTF plans
Message-ID: <200104231601.JAA22094@poptop.llnl.gov>
MIME-Version: 1.0
Content-Type: TEXT/plain; CHARSET=US-ASCII

W3CD wrote:

> Excitement is building at this end for TTF. It must be the year of the
> Eleusinian Mysteries. This week, I received permission to operate from the
> James Lick Observatory atop Mt. Hamilton, 14 miles east of San Jose, CA

>and about 4250' ASL. My friend Bill, AD6JV, and I will be operating from
>the parking lot adjacent to the 36 inch refractor. It might be more of an
>FYBO experience, since it was snowing there 2 weeks ago when I first
>visited.

There was an inch of snow on Hamilton Saturday when I was up there to
help with communication for the Devil Mtn Double double-century
bike ride. Nasty wind, too. Do take a good parka!

And a mere 20 or so miles to the North will be the Don and Allan
event. QTH is to be Rose Peak, elev 3817', only we will have paid the
price to get there. The trail in is 10.5 miles and with well
over 4000' of gross vertical gain. Don is in training for Philmont this
summer and I am always ready for a crazy hike. No monoliths there
although we can easily see the telescopes of Mt Hamilton and the huge
radar dishes at the old Camp Parks up in Dublin CA.

We hope to be on 40, 20 and 15m. Dipoles mostly, but might try a
longwire down the ridge, too. The summit area is mostly grass-covered,
so we will take a 20'er and also try to use some short oaks along
the north face of the ridge. Rigs: NC40A, NC20, and K2. Will have to
QRT at 3 to get out (4 hours!) before they lock the gates on us in
Del Valle park.

That's K7GT and KQ6KV. Be nice to Don. He hasn't been on CW for
some time.

73 Allan K7GT

Allan G Taylor

agtaylor@llnl.gov

Date: Mon, 23 Apr 2001 12:02:39 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96884] Re: Losses in "450" Ohm Window Line
Message-ID: <1010323120238.MAA17966@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 4/14/01 12:44 PM, James R. Duffey at jamesd1@flash.net wrote:

>Someone wrote that balanced line does not radiate. This is not strictly

>true. A good balanced line will radiate, even if the currents in both wires
>are equal and opposite.

If the currents are equal and opposite, the line will not radiate.

Of course, the currents can never be exactly equal and opposite, since
there are losses in each wire, and this unbalances the currents ever so
slightly.

The unbalance causes the radiation, not the line.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 23 Apr 2001 11:04:06 -0500
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-l@Lehigh.EDU>
Cc: "William Winnscott" <n6cha@ipa.net>, "Steve Lowrey" <snlowrey@alltel.net>,
"Stan Ross" <slross@cox-internet.com>, "Royce Rainwater" <ke5tc@crosstel.net>,
 "Ronald M. Kupers" <w5xq@arrl.net>, "Richard Donovan" <n5xm@alltel.net>,
"Randy Holden" <Randy_Holden@hotmail.com>, "Randy Baggett" <kg5ne@cei.net>,
Subject: [96885] Tuna Tin II: JayBob has his act together--Thanks Uncle Brucie!!
Message-ID: <007c01c0cc0f\$0a82e4a0\$259b66a6@alltel.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang hi,

The Fort Smith QRP Group is very happy to announce the return of the "Tuna
Tin 2 Kit". Have you always wanted to build the famous TT2 but put it off
because you didn't have all the parts? Did you "miss" the NJ QRP Club TT2
kit offer? Well, now you too, can be a member of the "I built a TT2 Club",
participate in TT2 nights, and have a ball building a kit. Plus if you are
new to qrp and kit building, this is an excellent kit to begin your building
career with.

Three years ago, NorCal did the "Back to the Future Project" in honor of
Doug DeMaw, W1FB. Dave Meacham, W6EMD did the work to update the TT2 to
modern, available parts. DeMaw's original design used some chokes and coils

that are no longer available from Radio Shack. Doug Hendricks, KI6DS, layed out a new board to fit the new parts, and there have been several clubs who have kitted the rig, including NorCal (very small run), NJ QRP Club (very large run), and the Arizona ScQRPions who gave away the kits last year at Ft. Tuthill.

The NJ Club has moved on to other kits, but we want to keep this project alive, as we think it is a classic, and is the first project that hundreds of hams have built. It is a simple 40 meter transmitter, crystal controlled, that will put out 250 - 400 mW. It is capable of making contacts all over the US, as was recently proven when the first TT2 WAS award was awarded.

The Ft. Smith QRP Group will be selling the TT2 kits to include the board (round version that fits a tuna can), all board mounted parts including the crystal (7.040), and a manual. You will need to supply keyjack, 3 RCA jacks, SPDT switch, hookup wire, and a tuna tin for the chassis. The cost will be \$12 post paid to the US & Canada, \$15 to DX countries. To order:

Please send a check or money order in US funds only, made out to Jay Bromley to:

Jay Bromley W5JAY
9505 Bryn Mawr Circle.
Ft. Smith, AR 72908-9276

Also, please, please enclose a self addressed mailing label. You don't know how much this helps us.

We have all the parts for the kits in except for the boards, and 50 of them are on the way, with more to follow in about 30 days. Shipping will start in about a week. Thanks to everyone for their great support of Ft. Smith QRP Group. All proceeds will be used to finance Arkiecon 2002 next spring.

If you have access to old QST, check out the original article in the May, 1976 issue. 73, JayBob-----ex-Jay-----w5jay..

Date: Mon, 23 Apr 2001 11:14:40 -0500
From: George Franklin <w0av@juno.com>
To: aa4lr@arrl.net
Cc: qrp-l@Lehigh.EDU
Subject: [96886] Re: long wire antennas

Message-ID: <20010423.111440.-1712889.0.w0av@juno.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello Gangue,

I've been enjoying the long-wire antenna stories and just had to contribute one of my own.

Right after WW2 in Frankfurt, Germany we were authorized to apply for ham licenses but could operate ten meters (29.0 to 30.0 MHz.) only.

I built an AM rig, about 40W input and had an SX28 but no antenna. Out my second floor window I saw one end of a single wire rural telephone line lying on the ground. The line went out about 300 feet and continued over a hill to parts unknown and was apparently not connected to anything. I tapped my end of the line on my 10M tank coil through a blocking capacitor and put out a call.

The band was open to the States and lots of stations answered. I received many S9+ reports, perhaps because the telephone line was pointed in the general direction of the USA. Great fun.

I have no idea how long my "long wire" actually was, but it certainly worked very well.

Apologies for the bandwidth.

72/73/74 de George/W0AV
ex D4USA, D4ACD

Date: Mon, 23 Apr 2001 16:20:51 -0000
From: "Delbert Long" <ad6we@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [96887] SMK-1 Now Transmitting!
Message-ID: <F95KR8Cp2YpMM07IRva00007271@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I got it humming at last. Nosed around and reheated some solder joints that looked a little cool...took the toroid off and reconnected it...made sure that it was correct...not sure what I did right, but it seems to be working now. Thanks for all the help.

De1, AD6WE

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Date: Mon, 23 Apr 2001 11:10:32 -0700
From: "Dan McLaughlin" <danmclaughlin@lycos.com>
To: qrp-1@Lehigh.EDU
Subject: [96888] Tuna Tin 2 for 30 Meters
Message-ID: <KHKKEEOMGCBHFAAA@mailcity.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Language: en
Content-Transfer-Encoding: 7bit

Is there any information out there on modifying the TT2 for 30 Meters? I imagine it would only require a different low pass filter. Would T1 need to be changed as well?

I'm pretty low on the electronic theory learning curve and thought this might be a good simple modification to learn on.

Thanks,

Dan KD5DET

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Date: 23 Apr 2001 11:34:42 -0700
From: John DiLorenzo <jdilorenzo3301@altavista.com>
To: qrp-1@Lehigh.EDU
Subject: [96889] Redhot Radio RH-20 Questions
Message-ID: <20010423183442.6900.cpm.ta@c012.sfo.cp.net>
Content-Type: text/plain
Content-Disposition: inline
Mime-Version: 1.0

After purchasing the RH-20 kit back in December, I got it assembled over the course of a few weeks, but have had some questions that I haven't been able to get answered.

On page 17 of the construction manual, it states T7 has 18 turns for the main winding, while the schematic shows 13 turns. Which is correct?

Also, I had to remove the connection at AGC 1 Link (it was shorted in the artwork) in order to tune the TX offset, even though this was not mentioned in the manual. I assume that this connection is supposed to be replaced for normal operation. Is this correct?

I would VERY much appreciate any response on these two questions.

Thanks in advance,

John DiLorenzo
KC8PXF

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<http://www.shopping.altavista.com>

Date: Mon, 23 Apr 2001 14:43:35 -0400
From: Rick Robinson <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Subject: [96890] Re: Trip to Vancouver, BC
Message-ID: <v03102809b70a273f1b34@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Juan KG4FSN wrote:

>

>>As I posted, I'm planning a trip to Vancouver for the
>>next week. As I would like to take my NW-20 with me, my
>>questions are: Is there any procedure I have to be aware
>>of for taking the equipment into Canada and back?
>>Do I need any other document than my ARS License to do this?
>>Hope you may advise on this.

Laura Halliday holds forth;

>This is well documented on the Radio Amateurs of Canada
>web page and has been discussed on QRP-L.

>

>Was the information there not useful?

Wow, what an informative reply and I'm sure Juan appreciates all the time you spent on it. I hope for Juan's sake the rest of BC is more friendly.

72,

Rick kf4ar

Date: Mon, 23 Apr 2001 11:13:06 -0700
From: "Arthur G. Silvers" <ags@ieee.org>
To: Don Wilhelm <w3fpr@peoplepc.com>
Cc: qrp-l <qrp-l@Lehigh.EDU>
Subject: [96891] Re: long wire antennas
Message-ID: <3AE470B2.BCA9C8A8@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good morning Don,

I could not find the magic length of 88 ft on the L.B. Cebik website. Nor could I find any discussion on adjusting antenna length to present a better match to transmission line characteristic impedance. I didn't say it isn't there. It's just that I couldn't find it.

So I went to my notes on an exercise I did some time ago. Using the Smith chart (MicroSmith) and a velocity factor of .8 for the 300 ohm line, I was able to place a 123.406 inch shorted tuning stub -97.92 inches from the antenna for a perfect match. Using current distribution as a justification, I shortened the antenna length by 2 times the stub position from the antenna, divided by velocity factor, and placed the stub at the resulting antenna feed point. This increases the feedpoint impedance to a purely resistive 300 ohms for 7.040 MHz. This 46.1' antenna is intended to go into my crawl space attic. Problem is that at 14.06 MHz, the input impedance to the antenna is 546.37 - 373j. Not as good for the other band I like to work but perhaps a reasonable performer.

Without a tuning stub the feed point impedance of an 88 ft dipole is about 130 + 252j at 7.04 MHz. If we are allowed to use absolute impedance for matching purposes, the value of 284 mostly reactive ohms comes very close to the number 300. At 14.06 MHz we get 1163 + 275j, or 1195 mostly resistive ohms, which is expected as the configuration resembles a double extended Zepp.

Of course, none of the above analysis takes height above ground as a factor and it would seem that the old rule of thumb "as high and as long as possible" prevails. Now where is that property line.....?

I hope you don't mind that I post this thread to qrp-l as I am certain that it will stir up some trouble.

72/73

Arth W6AGS

<http://www.qsl.net/w6ags>

Don Wilhelm wrote:

> Arth,
> If you are considering something like that lengthened 40 meter dipole that
> you mentioned - 88 feet is the magic number for the length. It will have a
> good pattern for 40 thru 10 meters. Check out L.B. Cebik's website for
> more info on it <http://www.cebik.com/groundup.html> and many other antenna
> topics.
>
> 73,
> Don
> ----- Original Message -----
> From: "Arthur G. Silvers" <ags@ieee.org>
> To: "Don Wilhelm" <w3fpr@peoplepc.com>
> Sent: Friday, April 20, 2001 7:03 PM
> Subject: Re: long wire antennas
>
> > Don,
> >
> > I very much appreciate your thoughts on end-fed antennas. I particularly
> like
> > your insight on antenna tuner design considerations.
> >
> > Clearly, an end fed wire is an unbalanced load at the feed point. If
> voltage
> > end-feeding, say, a multiple of half-waves with balanced line, it seems
> that the
> > load would be less unbalanced since it is a very high impedance point
> > (theoretically an open circuit but in practice, not). Current end-feeding
> an odd
> > multiple of quarter waves couldn't be more unbalanced. That is why you are
> right
> > about not needing a low impedance ground when voltage feeding. The input
> > impedance of the transmission line would be dependent upon its length as
> the

> > standing waves along the line create stationary voltage and current nodes.
> For
> > single frequency applications, I suppose one could cut the transmission
> line for
> > desired impedance. When that is impractical or for multifrequency use, the
> > tuning network needs to take up the job of adding or subtracting virtual
> > transmission line length. There is definitely a price to pay for feeding
> at one
> > end.
> >
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> > will probably end up doing is to cut the dipole for 40 meters plus 15% to
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> > concerned about the loss along the line and it should work for all
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> > Thanks again for your input. Have a great weekend.
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> <http://www.qsl.net/w3fpr/>
> > > QRP-L # 485 K2 SN 0020 [mailto: w3fpr@arrl.net](mailto:w3fpr@arrl.net)
> > >
> > > ----- Original Message -----
> > > From: "Arthur G. Silvers" <ags@ieee.org>
> > > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> > > Sent: Friday, April 20, 2001 3:49 PM
> > > Subject: Re: long wire antennas
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> > > > CCCCCCs&RRRRRRRRs. Common, Gray, give us a break!
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Date: Mon, 23 Apr 2001 14:43:08 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: danmclaughlin@lycos.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [96892] Re: Tuna Tin 2 for 30 Meters
Message-ID: <3AE477BC.5E2C3637@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dan,

How's the weather down there? Conversion of the TT2 to 30 meters has been done a number of times. I am not ragging on you for not knowing where it appears, only for not doing some more searching and/or reading before you asked. The original 30 meter conversion was done by Ed Hare for the original TT2 activity party a couple of years ago. It was also, I think, done by the NJQRP club later.

At any rate, conversion of the TT2 to 30 meters takes four components, I'll let you find where to get them. You will need a 30 meter crystal and two capacitors and one toroid for the low pass filter in the output circuit. You can probably use any LPF

values from the handbook.

73

Date: Mon, 23 Apr 2001 13:46:57 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'dpayton@fwi.com'" <dpayton@fwi.com>, Low Power Amateur Radio Discussion
<qrp-l@lehigh.edu>
Subject: [96893] RE: Float Charger Questions
Message-ID:
<E78D8A9D6762D411B5440008C791D4AA04A49A35@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

I suspect, Dennis, that the reason your short circuit test

<snip>

- Shorted = 2.75 A. (I was willing to lose my \$8 to see what would happen, although it was surely a stupid thing to do! I was hoping it would limit the current but the 25 or 40 ohm test had probably already answered that question.) <snip>

didn't produce smoke was because of the resistance of the transformer windings in the wall wart and other components in the charger.....
Thanks for the evaluation, however! More info is a lot better than less!

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----
> From: Dennis Payton [SMTP:dpayton@fwi.com]
> Sent: Sunday, April 22, 2001 3:12 PM
> To: Low Power Amateur Radio Discussion
> Subject: Float Charger Questions
>
> I bought a couple float chargers from Harbor Freight recently when they
> were
> on sale for about \$8 each. They are Chicago #41288.
>
> I did some tests putting resistance in series with them:
> - Open circuit =13.8 V.
> - 1000 ohms = 13.75 V. / 16 ma
> - 510 ohms = 13.7 V. / 28 ma
> <snip>

Date: Mon, 23 Apr 2001 21:02:05 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [96894] Re: Redhot Radio RH-20 Questions
Message-ID: <002201c0cc27\$ea11cd80\$dfad01d9@ingo>

Hello John,

> On page 17 of the construction manual, it states T7 has 18 turns for
the main winding, while the schematic shows 13 turns. Which is correct?

The text info is the correct info. It is difficult to paint many
windings. Much more windings and you see a black blob. ;-)

Second question - no info (sri).

72 de Ingo, DK3RED

E-Mail: dk3red@t-online.de - Homepage: <http://www.t-online.de/~dk3red>

Date: 23 Apr 2001 12:18:44 -0700
From: John DiLorenzo <jdilorenzo3301@altavista.com>
To: dk3red@t-online.de
Cc: qrp-l@Lehigh.EDU
Subject: [96895] Re: Redhot Radio RH-20 Questions
Message-ID: <20010423191844.12605.cpmta@c012.sfo.cp.net>
Content-Type: text/plain
Content-Disposition: inline
Mime-Version: 1.0

On Mon, 23 April 2001, "Ingo DK3RED" wrote:

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> The text info is the correct info. It is difficult to paint many

> windings. Much more windings and you see a black blob. ;-)
>

When I stated that the schematic "shows" 13 turns, I mean that there is text in the schematic as follows...

T7

T37-2 (this is the coil form)

13t:3t (13 turns for the primary, 3 turns for the secondary)

So, which text are you referring to when you say that the text is correct?

> Second question - no info (sri).

>

> 72 de Ingo, DK3RED

>

> E-Mail: dk3red@t-online.de - Homepage: <http://www.t-online.de/~dk3red>

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<http://www.shopping.altavista.com>

Date: Mon, 23 Apr 2001 14:34:58 -0700

From: "Jim Crooke" <crooke@prodigy.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [96896] Fuji batteries

Message-ID: <NFBBJPADGLMPBKFEMHOJCEDDCCAA.crooke@prodigy.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Greetings,

Sometime ago someone had mentioned that they had gotten a brick of Fuji aa batteries 40 for \$10. Where was that?

73 Jim KJ0C

Date: Mon, 23 Apr 2001 15:36:19 -0400

From: "Mike Yettsko" <myetsko@insydesw.com>

To: <crooke@prodigy.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [96897] Re: Fuji batteries

Message-ID: <006f01c0cc2c\$af22e1a0\$6b01a8c0@INSYDENT>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That was a BJ's wholesale club.

They used to be \$8.59 or so around here, but in the last two years
they have skyrocketed to about \$10.49.

I know, 26 cents!! It's highway robbery!

Mike

> Sometime ago someone had mentioned that they had gotten a brick of
> Fuji aa batteries 40 for \$10. Where was that?
>
> 73 Jim KJ0C

Date: Mon, 23 Apr 2001 19:38:02 -0000
From: "Delbert Long" <ad6we@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [96898] Tuna Tin 2 on 30 meters?
Message-ID: <F118ieLYCT4aJ6pkNzP00007292@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

For anyone interested in the original article, it can be found at

<http://www2.arrl.org/tis/info/pdf/7605014.pdf>

An update:
<http://www2.arrl.org/tis/info/pdf/0003037.pdf>

Also...it may not be exactly the TT2, but for 30 meters check this:

<http://www2.arrl.org/tis/info/pdf/8402046.pdf>

Del, AD6WE

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Mon, 23 Apr 2001 21:37:24 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [96899] Re: Redhot Radio RH-20 Questions
Message-ID: <001f01c0cc2c\$eefa9200\$e29101d9@ingo>

Hello John,

> When I stated that the schematic "shows" 13 turns, I mean that there
> is text in the schematic as follows...
> T7
> T37-2 (this is the coil form)
> 13t:3t (13 turns for the primary, 3 turns for the secondary)

Yes, I think the same.

> So, which text are you referring to when you say that the text is
> correct?

All other kits builded before (Elecraft, Norcal ...) used this
difference in the manuals. And after each publication of this manuals
the builder (I also) put this question on a mailinglist. ;-)
Try it or wait for an other answer (or put a question to RedHot Radio).

72 de Ingo, DK3RED

E-Mail: dk3red@t-online.de - Homepage: <http://www.t-online.de/~dk3red>

Date: Mon, 23 Apr 2001 12:44:10 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: crooke@prodigy.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [96900] Re: Fuji batteries
Message-ID: <3AE4860A.C116A560@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You can get COSTCO house brand AAs (they may be made by Fuji) for around

\$10 for a brick of 48 batteries.

Phil W7OX

Jim Crooke wrote:

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> batteries 40 for \$10. Where was that?
>
> 73 Jim KJ0C

Date: Mon, 23 Apr 2001 16:28:29 -0400
From: "Don Wilhelm" <w3fpr@arrl.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Arthur G. Silvers" <ags@ieee.org>
Subject: [96901] Re: long wire antennas
Message-ID: <00a701c0cc35\$c84b87a0\$eb2b3604@dbw11main>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Arth,
If you are considering something like that lengthened 40 meter dipole that
you mentioned - 88 feet is the magic number for the length. It will have a
good pattern for 40 thru 10 meters. Check out L.B. Cebik's website for
more info on it <http://www.cebik.com/groundup.html> and many other antenna
topics.

If you want a neat way of tuning your feedline (yes, you can do that) look
at Cecil Moore's (W6RCA) website and his 'mystery' antenna.
<http://people.delphi.com/CecilMoore/mystery.htm>
You can use the same technique with the 88 foot dipole too - if you want to
add 80 meters, you might have to add a 32 foot loop to Cecil's 'tuner'

73,
Don

----- Original Message -----
From: "Arthur G. Silvers" <ags@ieee.org>
To: "Don Wilhelm" <w3fpr@peoplepc.com>
Sent: Friday, April 20, 2001 7:03 PM
Subject: Re: long wire antennas

> Don,

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> I very much appreciate your thoughts on end-fed antennas. I particularly like
> your insight on antenna tuner design considerations.
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> Clearly, an end fed wire is an unbalanced load at the feed point. If voltage
> end-feeding, say, a multiple of half-waves with balanced line, it seems that the
> load would be less unbalanced since it is a very high impedance point
> (theoretically an open circuit but in practice, not). Current end-feeding an odd
> multiple of quarter waves couldn't be more unbalanced. That is why you are right
> about not needing an low impedance ground when voltage feeding. The input
> impedance of the transmission line would be dependent upon its length as the
> standing waves along the line create stationary voltage and current nodes. For
> single frequency applications, I suppose one could cut the transmission line for
> desired impedance. When that is impractical or for multifrequency use, the
> tuning network needs to take up the job of adding or subtracting virtual
> transmission line length. There is definitely a price to pay for feeding at one
> end.
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> counterpoise (as one is built in), no other RF ground needed. For single
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> Smith chart to check the 15% fudge factor to get the best length for a 300 ohm
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> Thanks again for your input. Have a great weekend.
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Date: Mon, 23 Apr 2001 14:05:01 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: w3fpr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [96902] Re: long wire antennas

Message-ID: <3AE498FD.1E3EF6E0@earthlink.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

The 88 foot antenna is described at:

<http://www.cebik.com/88.html>

Phil W7OX

Don Wilhelm wrote:

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> >
> >

Date: Mon, 23 Apr 2001 17:00:21 -0400
From: "Don Wilhelm" <w3fpr@arrl.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Arthur G. Silvers" <ags@ieee.org>
Subject: [96903] Re: long wire antennas
Message-ID: <00e901c0cc38\$fe82e540\$eb2b3604@dbw11main>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My mail client goofed - here is the right message!!

Arth,

Well, it looks like L. B. has updated his webpage layout and the information can be found now at <http://www.cebik.com/aledz.html> - look for his articles that are similar to 'What if I can have only 1 antenna'
He presented this concept at FIDM last year, and has published it in several forms over the past few years.
The 'magic' however is not in the feedpoint impedance - it is in the radiation patterns, and he usually addresses the 44 foot length for use on

40 thru 10 meters and adds a note that for use on 80 meters one can use an 88 foot version.

With parallel line, the losses are usually low, so there is small benefit in adding a stub or other tuning component at the antenna itself. Careful selection of the overall feedline length to present a transmission line feedpoint impedance that can be handled by whatever tuner you use is important.

73,

Don Wilhelm -Chapel Hill, NC W3FPR home page: <http://www.qsl.net/w3fpr/>
QRP-L # 485 K2 SN 0020 [mailto: w3fpr@arrl.net](mailto:w3fpr@arrl.net)

----- Original Message -----

From: "Arthur G. Silvers" <ags@ieee.org>

>

> I could not find the magic length of 88 ft on the L.B. Cebik website. Nor could

> I find any discussion on adjusting antenna length to present a better match to

> transmission line characteristic impedance. I didn't say it isn't there. It's

> just that I couldn't find it.

> ...

Date: Mon, 23 Apr 2001 00:33:35 -0400

From: "ZOOM" <kandrparker@sympatico.ca>

To: <puntrad@usa.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [96904] Re: Trip to Vancouver, BC

Message-ID: <002d01c0cbae\$8fcb7e80\$3294fea9@robertpa>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

When you get to customs, just register the serial numbers with them. You can get the form ahead of time. Should be no problem.

Cheers,

Robert
VE3RPF

----- Original Message -----

From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, April 23, 2001 9:44 AM
Subject: Trip to Vancouver, BC

> Gang,
>
> As I posted, I'm planning a trip to Vancouver for the next week.
> As I would like to take my NW-20 with me, my questions are: Is there any
> procedure I have to be aware of for taking the equipment into Canada and
> back?
> Do I need any other document than my ARS License to do this?
> Hope you may advise on this.
>
> Any comment will be appreciated.
>
> 72//73
>
> Juan - KG4FSN
>

Date: Mon, 23 Apr 2001 17:37:56 EDT
From: Drbob92031@aol.com
To: qrp-l@lehigh.edu
Subject: [96905] Linear loading question
Message-ID: <36.14d27e73.2815fab4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi guys;

I have a home brew vertical for 20/15/10(no coils) I wish to add 40M without a loading coil.

I have read in the ARRL Antenna Handbook that linear loading will do the same for a shortened antenna as a coil without the problems of a coil. IE; poor Q; dissipated power. etc. As for the linear loading concept the Handbook states that the antenna can be folded back and forth to take up less linear space as compared to the full electrical length in a straight line. Therefor if the 40

M vert is to be about 33' and my 20 M vert. is an aluminum mast of 16' 6" I can; using standoffs; run the 40M wire up the full 16' 6" and then down again; perhaps 2" away from the first wire and then bend up again also 2" away from the wire going down (sorry for any confusion) until the length of the 1/4 wave is used up. The handbook states to make the 1/4 wave about 10 to 20% longer and then to "cut and try" to attain 1:1 SWR. Also stated that the distance between the wires folded back on them selves depends on surrounding structures. The whole concept sounds like "cut and try". Would appreciate any input.

Tnx in advance es 72/73 de WA2EAW..Bob

Date: Mon, 23 Apr 2001 14:32:43 -0700
From: "Arthur G. Silvers" <ags@ieee.org>
To: Don Wilhelm <w3fpr@peoplepc.com>
Cc: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [96906] Re: long wire antennas
Message-ID: <3AE49F7B.51A5E72F@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Don,

Many thanks.

W70X, Phil, also pointed out a very relevant page by L.B.

<http://www.cebik.com/88.html>

Lot's of good info there as well.

73

Arth W6AGS

Don Wilhelm wrote:

> Arth,

>

> Well, it looks like L. B. has updated his webpage layout and the information
> can be found now at <http://www.cebik.com/aledz.html> - look for his articles
> that are similar to 'What if I can have only 1 antenna'

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> forms over the past few years.

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> radiation patterns, and he usually addresses the 44 foot length for use on

> 40 thru 10 meters and adds a note that for use on 80 meters one can use an
> 88 foot version.
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> adding a stub or other tuning component at the antenna itself. Careful
> selection of the overall feedline length to present a transmission line
> feedpoint impedance that can be handled by whatever tuner you use is
> important.
>
> 73,
> Don Wilhelm -Chapel Hill, NC W3FPR home page: <http://www.qsl.net/w3fpr/>
> QRP-L # 485 K2 SN 0020 [mailto: w3fpr@arrl.net](mailto:w3fpr@arrl.net)
>
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> From: "Arthur G. Silvers" <ags@ieee.org>
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> > I find any discussion on adjusting antenna length to present a better
> match to
> > transmission line characteristic impedance. I didn't say it isn't there.
> It's
> > just that I couldn't find it.
> > ...

Date: Mon, 23 Apr 2001 15:51:58 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: yqrp-canada@lists.gpfn.sk.ca, qrp-l@lehigh.edu
Cc: nmqrp@yahoogroups.com
Subject: [96907] PROP Conditions for QRPTTF (prelim)
Message-ID: <Pine.SUN.4.10.10104231455160.10059-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
QRP To The Field (QRPTTF) is next saturday, April 28th. Jan, N0QT, the
NorCal Contest Manager, will be reposting the complete rules and the
summary sheet about mid-week on QRP-L. They can also be found on the
NorCal website.

With less than a week to go, it looks like conditions for QRPTTF *could*
be about the best conditions for a QRP event in several years, pending
what our old friend, region 9393 (now 9433), decides to do in the next
few days.

FIRST, THE GOOD NEWS :-)

Solar flux goes UP and DOWN about every 27 days as the sun rotates.

The last two solar flux (SF) MINIMUM and MAXIMUMS were:

MAX: March 7th, SF=177 MIN: March 17th, SF=132

MAX: March 28th, SF=274 MIN: April 16th, SF=123

I would expect this next solar flux maximum to occur mid-week to over the QRPTTF weekend with a solar flux around 230-240. THAT'S PRETTY HOT! More than sufficient for good 10M openings most all daylight hours, and excellent 15M and 20M conditions. This would make the highest average solar flux of any QRP contest so far this solar cycle!

40M, not normally too useful until towards the end of the contest period, will be at the mercy of the geomagnetic field. Right now, too early to tell if any storming might be threatening.

NOW, THE BAD NEWS :-(

Our old friend, active region 9393, is back and now called region 9433. Today it just entered the region of "geoeffectiveness," where it will remain for the next week. This means should a major flare occur, the shock wave will hit the earth with maximum/near maximum force, triggering some major geomagnetic storms. Region 9393 is what produced the largest flare ever recorded (X26) 3 weeks ago. Fortunately, it was then outside the geoeffective window. It still remains a very active BETA-DELTA-GAMMA region, meaning very strong, compact and complex magnetic fields, capable of producing M and X class flares.

THE CRITICAL WINDOW IS THURSDAY TO EARLY FRIDAY. This is the period we need to keep our eyes on. Should a major flare (like an M5 or larger) occur on thursday, the shockwave will arrive on planet Earth saturday, wiping out QRPTTF perhaps for many hours. This would likely seriously effect 20M and below, but leave 15M and 10M pretty much alone.

If a major flare from this region occurs on QRPTTF saturday -- daylight hours -- the ionizing radiation would wipe out the D-layer for awhile and cause an HF blackout. But -- this condition usually recovers in a couple of hours, except for the higher latitudes (so the VE's will disappear for the rest of the day!), but the rest of us will see normal conditions for the remainder of the contest following recovery.

So keep your fingers crossed for a very quiet sun-day on thursday and friday morning. If nothing happens, QRPTTF will have almost ideal conditions on all HF bands.

I'll post later in the week how things are progressing and some

band/antenna recommendations, depending on what ole sol decides to do over the next few days, so you can plan your strategy. Right now, about any rig, any antenna and any band looks very fruitful :-)

CU on one of them there bands on saturday from the VLA, using the club calls, W9GFZ. Remember, this is also astronomy week, and several other QRPTTF stations will be operating from observatories as well. Cool.

72, Paul NA5N

Date: Mon, 23 Apr 2001 17:19:07 -0500
From: "Mike Mellinger WA0SXV" <wa0sxv@mellinger.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96908] SMK-1 voltage measurements
Message-ID: <005e01c0cc43\$6a3d6ee0\$017c9396@dra.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My SMK-1 spontaneously "blew" the final -- appears to have shorted one of the transistor junctions -- after several hours of use. I have a replacement but would like to measure some voltages immediately after replacing it to see if everything is normal. There was mention of a chart of SMK-1 voltages yesterday but I can't find it on the net.

Can anyone provide such information?

73,
Mike WA0SXV

Date: Mon, 23 Apr 2001 22:22:39 +0000
From: alan.kaul@att.net
To: Drbob92031@aol.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [96909] Re: Linear loading question
Message-ID:
<20010423222240.ZPHT2578.mtiwmhc26.worldnet.att.net@webmail.worldnet.att.net>

The Force 123 Linear Loaded 80 M vertical antenna uses

two linear loading wires joined at the bottom --- and separated at the bottom by about 6 or 8 feet.

The vertical has an insulator near the half-way point. It is fed at the bottom and the loading wire comes off the top of the bottom section and runs downward at about a 15 degree angle away from the radiator. When it reaches the base, it bends sharply and continues horizontally toward the opposite side of the vertical and connects to another wire spaced about the same distance (and angle) away from the radiator. That wire runs upward and connects to the bottom of the top section of the radiator (above the insulator).

Sorry for any confusion I might have caused with my description ... if you have seen one of the Force 12 -- 40 or 80 meter Yagis or rotatable dipoles, my explanation will sound a bit more lucid!!!

The finished antenna looks vaguely something like this

```
      |
      |
      | <--top of second loading wire connects here
    /|\ <--Insulator above this section, top of
   / | \   first loading wire connects below
  /--|--\  insulator at top of base section
    o---feedpoint, 52 ohm coax
```

Interestingly, Force 12 uses non-conductive rope to anchor the bottom ends of the loading wire rather than insulators.

--

Alan Kaul W6RCL e-mail:w6rcl@amsat.org
<http://worldnet.att.net/~alan.kaul/index.html>

> Hi guys;

>

> I have a home brew vertical for 20/15/10(no coils) I wish to add 40M without
> a loading coil.

> I have read in the ARRL Antenna Handbook that linear loading will do the same
> for a shortened antenna as a coil without the problems of a coil. IE; poor Q;
> dissipated power. etc. As for the linear loading concept the Handbook states
> that the antenna can be folded back and forth to take up less linear space as
> compared to the full electrical length in a straight line. Therefor if the 40

> M vert is to be about 33' and my 20 M vert. is an aluminum mast of 16' 6" I
> can; using standoffs; run the 40M wire up the full 16' 6" and then down
> again; perhaps 2" away from the first wire and then bend up again also 2"
> away from the wire going down (sorry for any confusion) until the length of
> the 1/4 wave is used up. The handbook states to make the 1/4 wave about 10 to
> 20% longer and then to "cut and try" to attain 1:1 SWR. Also stated that the
> distance between the wires folded back on them selves depends on surrounding
> structures. The whole concept sounds like "cut and try". Would appreciate any
> input.
> Tnx in advance es 72/73 de WA2EAW..Bob

Date: Mon, 23 Apr 2001 18:26:54 -0400
From: David Beach <dbeach@blvl.igs.net>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [96910] Ten-Tec Cases in Canada
Message-ID: <B70A2446.15FD%dbeach@blvl.igs.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Well, I am finally getting my Epiphyte 3 working (not because of problems with the radio - just me being slow!) and need to find a case. I'm not much into making cases so was wondering about the 'mentioned in the instructions' Ten-Tec TG-26. Electrosonic (a Cdn parts distributor, for int'n'l readers!) lists a bunch of Hammond cases - the metal ones I saw were of super quality but astronomic price.

Any fellow Canucks out there have a Canadian source for Ten-Tec enclosures? Or, a source for another brand of reasonable quality, reasonable priced enclosures? Radio Shack comes up short on this.

For US readers, from which mail-order places do you get metal enclosures?

Maybe its time to get out that old double-sided PC board from the junk box and start soldering....

--

David Beach
VE3STI
Picton, ON

Date: Mon, 23 Apr 2001 17:53:44 +0000

From: "Steven Weber" <kd1jv@moose.ncia.net>
To: jdilorenzo3301@altavista.com
Cc: qrp-1@lehigh.edu
Subject: [96911] Re: Redhot Radio RH-20 Questions
Message-ID: <200104232226.f3NMQQk25165@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> > > On page 17 of the construction manual, it states T7 has 18 turns for
> > the main winding, while the schematic shows 13 turns. Which is correct?
> >

13 turns is the correct number. The text and parts list is in error..
(must be for the 40M version or a typo)

I repaired a RH-20 recently with this problem. 18 turns were wound on
the coil, hence, no power out, as it would not peak.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Mon, 23 Apr 2001 15:54:37 -0700 (PDT)
From: agtaylor@llnl.gov
To: qrp-1@lehigh.edu
Subject: [96912] Re: Losses in "450" Ohm WIndow Line
Message-ID: <200104232255.PAA25811@poptop.llnl.gov>
MIME-Version: 1.0
Content-Type: TEXT/plain; CHARSET=US-ASCII

What would be the state of affairs of a ladder line with a spacing of
about, say, 1 wavelength. It would then be two longwires fed out of
phase. Now let the two wires be somewhat closer, say 1/8
wavelength. Some radiation, although much more cancels. Continue
in this way unless the two wires are exactly coincident in
space, there will be SOME radiation, even if the currents are identical
and exactly out of phase. Not much, mind you, but SOME. It isn't zero.
So, for a practical line (i.e., not zero spacing!) there will indeed
be some radiation. The physical situation is different for a piece of
coax. There, provided one doesn't have current flowing on the outside of
the coax and that the line currents are equal and opposite (180 deg
phasing) there can truly be ZERO radiation.

At least that is how this physics guy looks at it.

K7GT

Allan G Taylor

agtaylor@llnl.gov

Date: Mon, 23 Apr 2001 18:58:59 EDT
From: DYARNES@aol.com
To: myetsko@insydesw.com, qrp-l@lehigh.edu
Subject: [96913] Re: Fuji batteries
Message-ID: <70.9e831fb.28160db3@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 4/23/01 12:39:08 PM US Mountain Standard Time,
myetsko@insydesw.com writes:

<< That was a BJ's wholesale club.

They used to be \$8.59 or so around here, but in the last two years
they have skyrocketed to about \$10.49.
>>

Costco used to sell 40 batteries (alkaline-house brand) for around \$8.59, now
they sell 48 batteries for approximately \$10.50. I can't remember the
pennies, but that's close. At any rate, the price per battery is
substantially the same! Just more batteries! It beats the tar out of
anybody else's batteries except maybe some other discount house. I have had
a few of them go "south" on me (as in leak), but don't know that it happened
any more often than with Everready, Ray-o-Vac, etc.

Dave W7AQK

End of QRP-L Digest 2168

